

Effect of the Earth's Orbital Motion on Radio-Frequency
Measurements of Distance and Velocity in Outer Space, by
V.M. Valdimin, 7 pp.

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Effect of a Decline in Solar Activity on Cosmic
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Rocket-Probe Measurements, by Yu. G. Shafer, 4 pp.

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A Study of the Night Sky and the Scattering
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Veprik, Ya. M., Kurnosova, L. V. and others.
EXPERIMENTAL PHOTODEVELOPMENT OF PHOTO-
EMULSION FILMS ABOARD THE SECOND
SOVIET SPACECRAFT. 23 June 62, 9p. 2 refs.
Order from AIS \$5.00 AIS-5

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1962,
v. 11, p. 35-41.

DESCRIPTORS: *Photographic emulsions, *Photo-
graphic film, *Spaceships.

(Materials--Photographic, TT, v. 8, no. 5)

62-22024

- I. Veprik, Ya. M.
- II. Kurnosova, L. V.
- III. AIS-5
- IV. Argus Information
Service, Baltimore, Md.

Office of Technical Services

Measurement of Radiation Does on the Second Fourth
and Fifth Spaceship-Satellites, by
I. B. Keirim-Markus, E. E. Kovalov, et al.

RUSSIAN, bk, Iskustvennyye Sputniki Zemli, No 12,
1962, pp 47-50.

NASA TT F-8343

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M. G. Vladimirova, 6 pp. FOR OFFICIAL USE ONLY

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AF 1491348

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DOSES OF COSMIC RADIATION (Dozy Kosmicheskoi Radiatsii). [1963] [40p] (foreign text included) 29 refs
Order from OTS or SLA \$3.60 63-18701

Trans. of Iskusstvennye Sputniki Zemli (USSR) 1962, v. 12, p. 35-46.

DESCRIPTORS: *Cosmic rays, *Dose rate, *Radiological dosage, *Solar radiation, *Solar flares, Shielding, *Space medicine, Radiation effects, Mathematical analysis

Topics include the biological effects of radiation from primary cosmic radiation, solar flares, the outer radiation belt of the Earth, and the inner radiation belt of Earth.

(Nuclear Physics--Cosmic Rays, TT, v. 10, no. 11)

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I. Ivanov, V. I.
II. Keirim-Markus, I. B.
III. Kovalev, E. E.

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Condition of Certain Natural Immunity in Dogs
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Structure of the Earth's Ionized Gas Sheath According
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No 12, 1962, pp 105-118.

NASA TT 1-8278

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Some Results of Experiments Carried Out in Inter-
planetary Space by Means of Charged Particle
Traps on Soviet K Cosmic Rockets, by
K K. I. Gringauz.

RUSSIAN, bk, Izvestiya NIK Sputniki Zemli,
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Jan 63

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Molecular Weight of the Air in the 100 to 210 KM
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NASA TT F-8282

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TT-63-20154

Ruskol, E. L.

ON THE FORMATION OF INTERPLANETARY DUST
CONDENSATION AROUND THE EARTH. Aug 63

[11p] 10refs

Order from CTS, SLA, or ETC \$1.60 TT-63-20154

Trans. of [Iskusstvennye Sputniki Zemli] (USSR) 1962,
v. 12, p. 145-150. (Abstract available)DESCRIPTORS: *Interstellar matter, *Dust, Upper
atmosphere, Theory, Analysis

The author proposes two mechanisms for the condensation of dust particles around the earth, namely: (1) that the capture of the interplanetary dust particles by the earth is associated with their non-elastic collisions among themselves in the neighborhood of the earth, and (2) that the upper atmosphere causes deceleration of the dust particle velocities. (Author)

(Astronomy--Astrophysics, TT, v. 11, no. 6)

I. Ruskol, E. L.

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THE DETERMINATION OF THE ORBIT FROM TWO
POSITIONS: [1963] [32p. 2 refs.
Order from OIS or SLA \$3.60

63-14894

Trans. of Iskusstvennye Sputnik Zemli (USSR) 1962,
v. 13, p. 3-22

DESCRIPTORS: *Position finding, *Orbital trajectories,
*Space navigation, *Rendezvous guidance, Elliptical
orbit trajectories, Partial differential equations,
Celestial mechanics, Numerical analysis.

The explicit guidance problem of Keplerian mechanics
is discussed and analyzed in detail as to the types of
motion between two positions and the existence and
uniqueness of the motion. This paper is of basic interest
to those interested in satellite rendezvous and intercept
guidance problems. (Author)

(Engineering--Satellite Vehicles, TT, v. 10, no. 3)

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RUSSIAN, bk. Iskusstvennyye Sputniki Zemli,
Moscow, No 13, 1962, pp. ~~1-66~~, 85-122.

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Gravitational Field of the Earth, by M. D. Kiselev. 48 pp.

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CTC FT-63-19246

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Orbit of an Equatorial Satellite of the Earth,
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No 13, 1962, pp 53-60.
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NASA TT F-8347

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Effect of the Earth's Orbital Motion on Radar Measure-
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1962, pp 61-66.
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Sci - Aero
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Earth's Radiation Belts in the 180-250 KM
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et al.

RUSSIAN, *142* Iskusstvennye Sputniki, Zemli,
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Sci-Aero

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Measurement of Absorbed Dosage on Third
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Apr 63 [173]p. 70 refs. ACIC TC-590.
Order from OTS or SLA \$12.50 63-19536

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##Another translation of p. 4-100 is available from
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DESCRIPTORS: *Satellites (Artificial), Orbital
trajectories, Celestial mechanics, Space probes,
Electron density, Sky brightness, Night sky, Exobiology,
Equations of motion, Space navigation, Cosmic rays,
Solar radiation, Sounding rockets, Gravity.
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by K. I. Gringauz, G. I. Gdaliovich.

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RUSSIAN, *Izvestiya Akad. Nauk SSSR, Seriya Fiziko-Matematicheskie Nauki*, No 13,
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Light Scattering in a Spherical Atmosphere, by
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by I. D. Karachentsev.

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Interpretation of Data From Rocket Measurements in the
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The Direct Observations of Solar Plasma Streams at a Distance of Some, 1,900,000 KM From the Earth, Made on 17 February 1961; and the Simultaneous Observations of the Geomagnetic Field, by K. I. Gringauz, V. V. ~~MMX~~ Bezrukih.

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Flown on the Fourth and Fifth Satellite-Spaceships,
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JCS 6010023963
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A System of Gravitational Stabilization of Artificial
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NASA TT R-8501
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The Use of Force Effects of Solar Gravitational and
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NASA TT F-8510

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